



Listing of Claims

1. (currently amended) A purification device comprising:
a sample holder having
a sample chamber having an outlet; and in communication with
a column insert portion; and
a discreet column insert module including a cylindrical capsule extending from
the outlet of the sample chamber and configured to contain a separation bed, the column insert
module further comprising a permeable membrane configured to contain a medium and permit
passage of a sample through the medium and being securable ~~to the purification device~~ so that
the bed is in communication with the outlet.
2. (cancelled)
3. (currently amended) A purification device as defined in claim 1 wherein the sample
~~holder portion~~ chamber defines a first diameter and first volume and the column insert portion
defines a second diameter and second volume that is less than the diameter and volume of the
sample ~~holder portion~~ chamber and the ~~opening~~ outlet forms a tapered transition between the
sample ~~holder~~ chamber and column insert portion.
4. (currently amended) A purification device as defined in claim 1 ~~further comprising~~
wherein:
A the discreet column insert module is configured to be secured in the column insert
portion ~~and in communication with the sample holder portion.~~
5. (currently amended) A purification device as defined in claim ~~4~~ 1 wherein the column
insert module further comprises chromatography medium having a special affinity for a given
substance.
6. (cancelled)
7. (currently amended) A purification device as defined in claim 4 wherein a sample flow
pathway is defined by the sample chamber, ~~opening~~ outlet, ~~and~~ column insert portion, ~~and~~
column insert module, and

a flow regulator positioned along the flow pathway to regulate flow of a sample through the purification device so that purification of the sample is optimized.

8. (original) A purification device as defined in claim 7 wherein the flow regulator comprises an ultrafiltration membrane.

9. (original) A purification device as defined in claim 7 wherein the flow regulator comprises a micro-porous membrane.

10. (currently amended) A purification device as defined in claim 7 wherein the column insert module further comprises a removable top portion configured to fit in sealing engagement with the column insert module.

11. (currently amended) A purification device as defined in claim 10 wherein the column insert module is configured to receive medium selected by a user.

12. (currently amended) A purification device as defined in claim 10 wherein the column insert module is configured to receive one or more permeable membranes selected by a user.

13. (currently amended) A purification device comprising:
Aa well plate having a plurality of wells each having a sample chamber portion, a column insert portion; and
a column module comprising a cylindrical capsule extending from an opening of said sample chamber portion insertable into the column insert portion such that it is in fluid communication with the sample chamber portion and further comprising a permeable membrane configured to contain a medium and permit passage of a sample through the medium.

14. (original) A purification device as defined in claim 13 further comprising:
a collection tray configured to correspond to the well plate such that each well of the well plate aligns with a vessel of the collection tray so that samples can be collected.

15. (original) A purification device as defined in claim 14 further comprising:
a barrier seal positioned between the well plate and the collection tray.

16. (original) A purification device as defined in claim 15 wherein the barrier seal is formed from a flexible polymer.

17-29. (cancelled)

30. (currently amended) A purification device kit comprising:
at least one sample holder having
 a sample chamber in communication through an opening with a
 a column insert portion,
at least one column module comprising a cylindrical capsule extending from an opening of said sample chamber, and further comprising a permeable membrane configured to contain a medium and permit passage of a sample through the medium insertable into the column insert;
 a binding buffer,
 an elution buffer, and
 a neutralization buffer.

31. (previously presented) A purification device kit as defined in claim 30 wherein a plurality of column modules are provided and each column module has a special affinity for a unique substance.

32. (previously presented) A purification device kit as defined in claim 31 wherein the column modules have affinities for different proteins.

33. (original) A purification device kit as defined in claim 31 wherein a user definable column module is provided having a removable top and user definable mediums are provided for use with the column modules.

34. (original) A purification device kit as defined in claim 31 further comprising:
a column module insertion and removal tool.